

Title (en)

Method and means of reducing the oxidation of reactive elements in an electroslag remelting operation.

Title (de)

Verfahren und Vorrichtung zum Vermindern der Oxidation reaktiver Elemente bei Elektro-Schlacke-Umschmelzen.

Title (fr)

Procédé et dispositif pour réduire l'oxydation des éléments réactifs lors de la refusion électrique sous laitier.

Publication

EP 0407021 A1 19910109 (EN)

Application

EP 90305609 A 19900523

Priority

US 37511789 A 19890703

Abstract (en)

A method and apparatus is provided for controlling the atmosphere above the bath of an electroslag remelting furnace (10), including sealing the atmosphere of the furnace directly above the crucible (16) by employing a shell (46) secured to the crucible (16) and a shroud (48) secured between the shell (46) and the movable furnace ram (22) to encapsulate the atmosphere, and analyzing the oxygen content of the atmosphere and controlling the amount of oxygen therein by introducing an inert gas in the atmosphere.

IPC 1-7

C22B 9/18

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

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- [A] US 3344840 A 19671003 - BUEHL RUSSELL C, et al
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US 4953177 A 19900828; CA 2016194 A1 19910103; EP 0407021 A1 19910109; JP H0339425 A 19910220; KR 910003345 A 19910227

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